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|---|--|--|---------------------------------------|---|
| UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i> | | Attorney Docket No. 612.43234X00 | First Inventor HU, LIN-YING | Title METHOD FOR RAPID FORMATION OF A STOCHASTIC MODEL REPRESENTATIVE OF A HETEROGENEOUS UNDERGROUND RESERVOIR, CONSTRAINED BY DYNAMIC DATA |
| | | Express Mail Label No. | | |

| | |
|---|---|
| APPLICATION ELEMENTS SEE MPEP chapter 600 concerning utility patent application contents. | ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450 |
|---|---|

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.

3. ☒ Specification [Total Pages: **20**]
(preferred arrangement set forth below)

- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets: **3**]

5. Oath or Declaration [Total Sheets: _____]

a. ☐ Newly executed (original or copy)

b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)

i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
Named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)

6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission *if applicable, all necessary*

a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. ☐ CD-ROM or CD-R (2 copies); or

ii. ☐ paper

c. ☐ Statements verifying identity of above copies

| ACCOMPANYING APPLICATION PARTS | |
|---|--|
| <p>9. <input type="checkbox"/> Assignment Papers (cover sheet & documents(s))</p> <p>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i></p> <p>11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i></p> <p>12. <input checked="" type="checkbox"/> Information Disclosure <input checked="" type="checkbox"/> Copies of IDS Citations Statement (IDS)/PTO-1449</p> <p>13. <input checked="" type="checkbox"/> Preliminary Amendment</p> <p>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i></p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i></p> <p>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</p> <p>17. <input checked="" type="checkbox"/> Other: Figs. 1-6, Credit Card Payment Form, Claim For Priority Letter</p> | |

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Prior application information: Examiner: _____ Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

| | | | |
|---|-----------------------------------|--|-------------------------|
| <input checked="" type="checkbox"/> Customer Number 020457 | | OR <input type="checkbox"/> Correspondence address below | |
| Name ANTONELLI, TERRY, STOUT & KRAUS, LLP | | | |
| Address _____ | | | |
| City | State | Zip Code | |
| Country | Telephone | Fax | |
| Name (Print/Type) | Registration No. (Attorney/Agent) | | |
| Signature <i>Donald E. Stout</i> | Date | | October 30, 2003 |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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 03917 U.S. PTO
10/695899

103003

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**FEE TRANSMITTAL
for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT (\$)** 770.00**Complete if Known**

Application Number _____
 Filing Date **October 30, 2003**
 First Named Inventor **HU, LIN-YING**
 Examiner Name _____
 Art Unit _____
 Attorney Docket No. **612.43234X00**

METHOD OF PAYMENT (check all that apply)
☐ Check ☒ Credit Card ☐ Money ☐ Other ☐ None
 Order
☒ Deposit Account:

Deposit Account Number **01-2135**
 Deposit Account Name **Antonelli, Terry, Stout & Kraus, LLP**

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application.☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity Code | Large Entity Fee (\$) | Small Entity Code | Small Entity Fee (\$) | Fee Description |
|-------------------|-----------------------|-------------------|-----------------------|------------------------|
| 1001 | 770 | 2001 | 385 | Utility filing fee |
| 1002 | 340 | 2002 | 170 | Design filing fee |
| 1003 | 530 | 2003 | 265 | Plant filing fee |
| 1004 | 770 | 2004 | 385 | Reissue filing fee |
| 1005 | 160 | 2005 | 80 | Provisional filing fee |

SUBTOTAL (1)**Fee Paid**

770.00

770.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 16 | -20** = 0 | x 18 | = 0 |
| Indep. Claims | 1 | -3** = 0 | x 86 = 0 |
| Multiple Dependent | | 290 | = 0 |

Large Entity Small Entity

Fee Fee Fee Fee

Code (\$) Code (\$)

1202 18 2202 9

1201 86 2201 43

1203 290 2203 145

1204 86 2204 43

1205 18 2205 9

Fee Description

Claims in excess of 20

Independent claims in excess of 3

Multiple dependent claim, if not paid

** Reissue independent claims

over original patent

** Reissue claims in excess of 20

and over original patent

SUBTOTAL (2) \$ 0.00

**or number previously paid, if greater; For Reissues, see above.

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Fee Fee Fee

Code (\$) Code (\$)

1051 130 2051 65

1052 50 2052 25

1053 130 1053 130

1812 2,520 1812 2,520

1804 920* 1804 920*

1805 1,840* 1805 1,840*

1251 110 2251 55

1252 420 2252 210

1253 950 2253 475

1254 1,480 2254 740

1255 2,010 2255 1,005

1401 330 2401 165

1402 330 2402 165

1403 290 2403 145

1451 1,510 1451 1,510

1452 110 2452 55

1453 1,330 2453 665

1501 1,330 2501 665

1502 480 2502 240

1503 640 2503 320

1406 130 1460 130

1807 50 1807 50

1806 180 1806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 1802 900

1807 50 1807 50

1806 180 1806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 1802 900

1807 50 1807 50

1806 180 1806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 1802 900

1807 50 1807 50

1806 180 1806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 1802 900

1807 50 1807 50

1806 180 1806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 1802 900

1807 50 1807 50

1806 180 1806 180

8021 40 8021 40

1809 770 2809 385

1810 770 2810 385

1801 770 2801 385

1802 900 1802 900

Fee Description

Surcharge - late filing fee or oath

Surcharge - late provisional filing fee or cover sheet

Non-English specification

For filing a request for ex parte reexamination

Requesting publication of SIR prior to Examination action

Requesting publication of SIR after Examiner action

Extension for reply within first month

Extension for reply within second month

Extension for reply within third month

Extension for reply within fourth month

Extension for reply within fifth month

Notice of Appeal

Filing a brief in support of an appeal

Request for oral hearing

Petition to institute a public use proceeding

Petition to revive - unavoidable

Petition to revive - unintentional

Utility issue fee (or reissue)

Design issue fee

Plant issue fee

Petitions to the Commissioner

Processing fee under 37 CFR 1.17(q)

Submission of Information Disclosure Stmt

Recording each patent assignment per property (times number of properties)

Filing a submission after final rejection (37 CFR § 1.129(a))

For each additional invention to be examined (37 CFR § 1.129(b))

Request for Continued Examination (RCE)

Request for expedited examination of a design application

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)**0.00****SUBMITTED BY**

Name (Print/Type)

Donald E. Stout

Registration No.
(Attorney/Agent)

26,422

Telephone

703-312-6600

Signature

Date

10/30/2003

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